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**Fig. 11-2**

401 CTCCTACTGGAACGCACTTCTGTGAGGTTGAACAGATAAGGAATGGACCT 450  
|||  
401 CTCCTACTGGAACGCACTTCTGTGAGGTTGAACAGATAAGGAATGGACCT 450  
451 CCAGTCATTTCATTCTGGAATCAAAGACCTAAAAGTCTTGAAAACAACCCA 500  
|||  
451 CCAGTCATTTCATTCTGGAATCAAAGACCTAAAAGTCTTGAAAACAACCCA 500  
501 GTCTGGCTTTGAAGGATTCATCAAGGACCAGTTCACCACCCTCCCTGAGG 550  
|||  
501 GTCTGGCTTTGAAGGATTCATCAAGGACCAGTTCACCACCCTCCCTGAGG 550  
551 TGAAGGACCGGTGCTTTGCCACCCAAGTGTACTGCAAATGGCGCTACCAC 600  
|||  
551 TGAAGGACCGGTGCTTTGCCACCCAAGTGTACTGCAAATGGCGCTACCAC 600  
601 CAGGGCAGAGATGTGGACTTTGAGGCCACCTGGGACACTGTTAGGAGCAT 650  
|||  
601 CAGGGCAGAGATGTGGACTTTGAGGCCACCTGGGACACTGTTAGGAGCAT 650  
651 TGTCTGCAGAAATTTGCTGGGCCCTATGACAAAGGCGAGTACTCGCCCT 700  
|||  
651 TGTCTGCAGAAATTTGCTGGGCCCTATGACAAAGGCGAGTACTCGCCCT 700  
701 CTGTCCAGAAGACACTCTATGACATCCAGGTGCTCACCCCTGGGCCAGGTT 750  
|||  
701 CTGTCCAGAAGACACTCTATGACATCCAGGTGCTCACCCCTGGGCCAGGTT 750  
751 CCTGAGATAGAAGATATGGAAATCAGCCTGCCAAATATTCACTACTTAAA 800  
|||  
751 CCTGAGATAGAAGATATGGAAATCAGCCTGCCAAATATTCACTACTTAAA 800  
801 CATAGACATGTCCAAAATGGGACTGATCAACAAGGAAGAGGTCTTGCTAC 850  
|||  
801 CATAGACATGTCCAAAATGGGACTGATCAACAAGGAAGAGGTCTTGCTAC 850  
851 CTTTAGACAATCCATATGGAAAAATTACTGGTACAGTCAAGAGGAAGTTG 900  
|||  
851 CTTTAGACAATCCATATGGCAGGATTACTGGTACAGTCAAGAGGAAGCTG 900  
901 TCTTCAAGACTGTGA 915  
|||  
901 ACTTCAAGGCTGTGA 915

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**Fig. 12-1**

Bestfit (GCG software) comparison of coding sequences of the cDNAs of Pig KS uricase ("PKS") vs. baboon uricase

"Pig KS" uricase:

Pig cDNA from 1 to 864 (NdeI site) and then Baboon 865 to 915 (end)

|                     |        |                   |        |
|---------------------|--------|-------------------|--------|
| Gap Weight:         | 50     | Average Match:    | 10.000 |
| Length Weight:      | 3      | Average Mismatch: | -9.000 |
| Quality:            | 7573   | Length:           | 915    |
| Ratio:              | 8.277  | Gaps:             | 0      |
| Percent Similarity: | 90.929 | Percent Identity: | 90.929 |

Match display thresholds for the alignment(s):

| = IDENTITY  
: = 5  
. = 1

pigKS.seq x baboon.seq July 25, 1998 10:21 ..

```

PKS   1 ATGGCTCATTACCGTAATGACTACAAAAAGAATGATGAGGTAGAGTTTGT  50
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
bab   1 ATGGCCGACTACCATAACAATAAAAAAGAATGATGAATTGGAGTTTGT  50
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

51  CCGAACTGGCTATGGGAAGGATATGATAAAAGTTCTCCATATTCAGCGAG  100
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
51  CCGAACTGGCTATGGGAAGGATATGGTAAAAGTTCTCCATATTCAGCGAG  100
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

101  ATGGAAAATATCACAGCATTAAAGAGGTGGCAACTTCAGTGCAACTGACT  150
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
101  ATGGAAAATATCACAGCATTAAAGAGGTGGCAACTTCAGTGCAACTTACT  150
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

151  TTGAGCTCCAAAAAGATTACCTGCATGGAGACAATTCAGATGTCATCCC  200
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
151  CTGAGTTCCAAAAAGATTACCTGCATGGAGATAATTCAGATATCATCCC  200
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

201  TACAGACACCATCAAGAACACAGTTAATGTCCTGGCGAAGTTCAAAGGCA  250
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
201  TACAGACACCATCAAGAACACAGTTTATGTCTTGGCAAAGTTTAAGGGAA  250
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

251  TCAAAAGCATAGAACTTTTGCTGTGACTATCTGTGAGCATTTCTTTTCT  300
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
251  TCAAAAGCATAGAAAGCCTTTGGTGTGAATATTTGTGAGTATTTCTTTCT  300
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

301  TCCTTCAAGCATGTCATCAGAGCTCAAGTCTATGTGGAAGAAGTTCCTTG  350
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
301  TCTTTTAACCATGTAATCCGAGCTCAAGTCTACGTGGAAGAAATCCCTTG  350
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

351  GAAGCGTTTTGAAAAGAATGGAGTTAAGCATGTCCATGCATTTATTATATA  400
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
351  GAAGCGTCTTGAAAAGAATGGAGTTAAGCATGTCCATGCATTTATTCACA  400
      |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

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[illegible]